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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO.       |
|---|-------------|----------------------|-------------------------|------------------------|
| 11/507,484  | 08/22/2006  | Seo-hyun Cho         | 101-1382                | 9773                   |
| 38209 7590 10/12/2007<br>STANZIONE & KIM, LLP<br>919 18TH STREET, N.W.<br>SUITE 440<br>WASHINGTON, DC 20006 |             |                      | EXAMINER<br>SEO, JUSTIN |                        |
|   |             |                      | ART UNIT<br>2861        | PAPER NUMBER           |
|   |             |                      | MAIL DATE<br>10/12/2007 | DELIVERY MODE<br>PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary**

Application No.

11/507,484

Applicant(s)

CHO ET AL.

Examiner

Justin Seo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 September 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☒ Claim(s) 1-16 are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

**DETAILED ACTION**

1. Upon review of the Applicant's response filed 9/12/2007, it is noted that a restriction/election is warranted. Any inconvenience to Applicant is regretted.

***Election/Restrictions***

2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-4, drawn to an array printhead, classified in class 347, subclass 42.
  - II. Claims 5 and 6, drawn to an array printhead, classified in class 347, subclass 40.
  - III. Claims 7-9 and 16, drawn to an array printhead and an array inkjet printhead, classified in class 347, subclass 84.
  - IV. Claim 10, drawn to an array printhead, classified in class 347, subclass 49.
  - V. Claim 11, drawn to an inkjet image forming apparatus, classified in class 347, subclass 104.

VI. Claims 12-15, drawn to an inkjet image forming apparatus, classified in class 347, subclass 43.

3. The inventions are distinct, each from the other because of the following reasons:

4. Inventions IV and I/II/III/V/VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention I has separate utility such as an array printhead without separating the functions of the ink structure into a first, second and third member (I, III, and VI), ink channels extended in the lengthwise direction (II, III), a paper feeding unit (V, VI), and vice versa. In other words, each one of the inventions recited in Group IV and Group I/II/III/V/VI is separately usable in a system not having the other. See MPEP § 806.05(d).

5. Inventions I and II/III/V/VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention I has separate utility such as an array printhead without ink channels extended in the lengthwise direction (II, III), a paper feeding unit (V, VI), and vice versa. In other words, each one of the

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inventions recited in Group I and Group II/III/V/VI is separately usable in a system not having the other. See MPEP § 806.05(d).

6. Inventions II and III/V/VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention II has separate utility such as an array printhead without separating the functions of the single member into a first, second and third member (III, VI), a paper feeding unit (V, VI), and vice versa. In other words, each one of the inventions recited in Group II and Group III/V/VI is separately usable in a system not having the other. See MPEP § 806.05(d).

7. Inventions III and V/VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention III has separate utility such as an array printhead without a paper feeding unit (V, VI), and vice versa. In other words, each one of the inventions recited in Group III and Group V/VI is separately usable in a system not having the other. See MPEP § 806.05(d).

8. Inventions V and VI are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in

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scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, invention V has separate utility such as an inkjet image forming apparatus without separating the functions of the ink structure into a first, second and third member (VI), and vice versa. In other words, each one of the inventions recited in Group V and Group VI is separately usable in a system not having the other. See MPEP § 806.05(d).

9. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin Seo whose telephone number is 571-270-1327. The examiner can normally be reached on Mon-Thurs and every other Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Luu can be reached on 571-272-7663. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Justin Seo



Patent Examiner  
October 5, 2007



**MATTHEW LUU**  
**SUPERVISORY PATENT EXAMINER**